

Dragon, Karen E. (CDC/NIOSH/EID)

From: Pitts NSPS Sam C [sam.c.pitts@usmc.mil]
Sent: Friday, January 14, 2011 3:54 PM
To: NIOSH Docket Office (CDC)
Cc: Baxter, Christina M.; beth_lancaster@kalmanco.com; Haskell, William (CDC/NIOSH/NPPTL); Area LT James B; Rossos, Dan (PF&R Email); David Haston; Jeffrey Race; Kaufman, Jonathan CIV; Cloonan, Terrence K. (CDC/NIOSH/NPPTL)
Subject: 082-A - Chemical, Biological, Radiological and Nuclear (CBRN) Combination Respirator Unit (CRU)

Excellent Idea,

I would suggest that combinations of existing units would seem to be the most sensible course of action.

I think that careful consideration of the engineering and mechanics involved in the development of gating mechanisms that conceivably would separate APR plenums from SCBA plenums (and etc.) would need to be considered carefully.

Filter media behavior on "tranquil" exposure to agent (while using the SCBA or rebreather component) and the attendant agent migration thru the filter media should be explored and characterized.

Further, the subsequent use of exposed filter media and the possible rapid breakthrough of contaminants must be explored and described. In the fire service, there may be some unforeseen consequences to filter media exposed to high temperatures and then subsequently utilized in respiration, I am uncertain if these impacts are fully known at this juncture.

While not strictly a combination unit, we in the DOD, see the wisdom, utility and reduced logistical footprint benefits attendant to "one mask" that is adaptable to all applications in both positive and negative pressure systems.

Respectfully Submitted

Sam C. Pitts
Nuclear, Biological & Chemical Warfare Officer CWO IV U.S.M.C. (ret)
Marine Corps Systems Command
Family of Incident Response Systems
50 Tech Parkway suite 301
Stafford Virginia 22556
phone# 703-617-2479
cell # 240-993-9584
email: sam.c.pitts@usmc.mil